

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Andreas MENRAD, et al.

Serial No.: Divisional of 09/942,117

Group Art Unit: 1644

Filed: October 2, 2003

Examiner: M. Haddad

For: RECEPTOR OF THE EDb-FIBRONECTIN DOMAINS

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

Timing and Fees

- ☒ Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed:
- ☐ within three months of the filing date of a national application other than a CPA under § 1.53(d);
  - ☐ within three months of the actual filing date of the national phase of a PCT application; OR
  - ☒ before the mailing of a first substantive office action (including after filing of an RCE).
- ☐ Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
- ☐ a final rejection under 37 C.F.R. 1.113;
  - ☐ termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
  - ☐ a notice of allowance under 37 C.F.R. § 1.311; and

is accompanied by:

- ☐ the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
- ☐ a check covering the fee of \$180.00 under 37 C.F.R. § 1.17(p).

☐ Under 37 C.F.R. § 1.97(d), this information disclosure statement is filed after the mailing date of the following actions which have not been withdrawn:

- ☐ a final action under 37 C.F.R. § 1.113;
- ☐ termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
- ☐ a notice of allowance under 37 C.F.R. § 1.311;

AND is filed on or before payment of the issue fee; AND is accompanied by:

- ☐ the statement as specified in 37 C.F.R. § 1.97(e) as set forth below, and the fee of \$180.00 under 37 C.F.R. § 1.17(p).

Statements Under 37 C.F.R. 1.97(e)

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.

Cited Materials

- ☒ Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. 09/942,117, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- ☐ Copies of materials listed but not attached were cited in an international search report dated \_\_\_\_\_.
- ☐ Copies of the materials listed are attached (except for the foregoing).

### Non-English Language References

☐ An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).

☐ A foreign-language search report from a foreign patent office is provided, and pertinent parts are translated substantively below:

X = document of particular relevance when it is taken alone

Y = document of particular relevance when it is combined with another such document

A = document defining the general state of the art

O = non-written disclosure

P = intercalated document

T = document cited to understand the theory or principle underlying the invention

E = patent document which has the benefit of a date earlier than the filing date and which was published only on or after this filing date

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☐ Translation of other relevant information on foreign search report

### Other Information

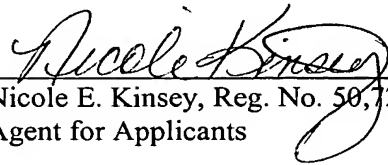
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☐ A check for \$\_\_\_\_\_ covering the fee identified above is attached.

☐ Please charge to Deposit Account No. 13-3402 \$\_\_\_\_\_ for the fee identified above.

☒ The Commissioner is hereby authorized to charge or credit any overpayment to Deposit Account #13-3402, two copies of this paper are attached for this purpose.

Respectfully submitted,

  
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Attorney Docket No.: SCH-1832D1

Date: October 2, 2003

NEK:tc



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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	Divisional of 09/942,117
				Filing Date	October 2, 2003
				First Named Inventor	A. MENRAD et al.
				Group Art Unit	1644
				Examiner Name	M. Haddad
Sheet	1	of	2	Attorney Docket Number	SCH-1832 D1

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	5,120,830		Santoro	06/1992	
	A2	5,583,203		Hemler et al.	12/1996	

FOREIGN PATENT DOCUMENTS								
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B1	WO	9958570	A	Eidgenoeess....	11/18/1999		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	C1	Argraves et al., "Amino Acid Sequence of the Human Fibronectin Receptor," <i>Journal of Cell Biology</i> , Rockefeller University Press, New York, US, Vol. 105, 1987, pp. 1183-1190.		
	C2	Takada et al., "The Primary Structure of the VLA-2/Collagen Receptor Alpha2 Subunit (Platelet GPIA): Homology to Other Integrins and the Presence of a Possible Collagen-Binding Domain," <i>Journal of Cell Biology</i> , Rockefeller University Press, New York, US, Vol. 109, No. 1, 07/01/1989, pp. 397-407.		
	C3	Garcia-Velasco et al., "Regulation of Monocyte Chemotactic Protein-1 Expression in Human Endometrial Stromal Cells by Integrin-Dependent Cell Adhesion," <i>Biology of Reproduction</i> , Vol. 61, No. 2, August 1999, pp. 548-552.		
	C4	Wagner et al., "Differentiation of Polymorphonuclear Neutrophils in Patients with Systemic Infections and Chronic Inflammatory Diseases: Evidence of Prolonged Life Span and de novo Synthesis of Fibronectin," <i>Journal of Molecular Medicine</i> , Vol. 78, No. 6, 2000, pp. 337-345.		
	C5	Castellani et al., "The Fibronectin Isoform Containing the ED-B Oncofetal Domain: A Marker of Angiogenesis," <i>International Journal of Cancer</i> , New York, NY, US, Vol. 59, No. 5, 12/01/1994, pp. 612-618.		
	C6	Hashimoto-Uoshima et al., "The Alternatively Spliced Domains EIIB and EIIA of Human Fibronectin Affect Cell Adhesion and Spreading," <i>Journal of Cell Science</i> , Vol. 110, No. 18, 1997, pp. 2271-2280.		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C7	Kern A., Eble J., Golbik R., Kuhn K., "Interaction of Type IV Collagen with the Isolated Integrins Alpha 1 Beta 1 and Alpha 2 Beta 1", Eur J. Biochem. 215(a):151-159, 1993.	
	C8	Ngo J.T., Marks J., Karplus M., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox in the Protein Folding Problem," ch. 14, pp. 435-508, Birkhauser, 1994.	
	C9	Kogan T.P., Reville B.M., Tapp S., Scott D., Beck P.J., "A Single Amino Acid Residue can Determine the Ligand Specificity of E-Selectin", J. Biol Chem. 270(23):14047-55. 1995.	
	C10	Takada Y et al., "The Primary Structure of the VLA-2/Collagen Receptor Alpha 2 Subunit (Platelet GPIa): Homology to other Integrins and the Presence of a Possible Collagen-Binding Domain", J. Cell Biol. 109(1):397-407. 1989.	

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